Fernanda CÃ¡ssio

List of Publications by Year
in descending order

113 papers	3,647 citations	126708 33 h-index	161609 54 g-index
114 all docs	114 docs citations	114 times ranked	3074 citing authors

#	Article	IF	Citations
1	Contribution of Fungi and Bacteria to Leaf Litter Decomposition in a Polluted River. Applied and Environmental Microbiology, 2004, 70, 5266-5273.	1.4	308
2	Aquatic hyphomycete diversity and identity affect leaf litter decomposition in microcosms. Oecologia, 2006, 147, 658-666.	0.9	159
3	Assessing structural and functional ecosystem condition using leaf breakdown: studies on a polluted river. Freshwater Biology, 2003, 48, 2033-2044.	1.2	120
4	Can Metal Nanoparticles Be a Threat to Microbial Decomposers of Plant Litter in Streams?. Microbial Ecology, 2011, 62, 58-68.	1.4	116
5	Anthropogenic stress may affect aquatic hyphomycete diversity more than leaf decomposition in a low-order stream. Archiv FÃ¼r Hydrobiologie, 2005, 162, 481-496.	1.1	112
6	Role of fungi, bacteria, and invertebrates in leaf litter breakdown in a polluted river. Journal of the North American Benthological Society, 2005, 24, 784-797.	3.0	111
7	Responses of antioxidant defenses to Cu and Zn stress in two aquatic fungi. Science of the Total Environment, 2007, 377, 233-243.	3.9	92
8	Pollutionâ€induced community tolerance (<scp>PICT</scp>): towards an ecologically relevant risk assessment of chemicals in aquatic systems. Freshwater Biology, 2016, 61, 2141-2151.	1.2	86
9	Stream-dwelling fungal decomposer communities along a gradient of eutrophication unraveled by 454 pyrosequencing. Fungal Diversity, 2015, 70, 127-148.	4.7	80
10	Elevated temperature may intensify the positive effects of nutrients on microbial decomposition in streams. Freshwater Biology, 2014, 59, 2390-2399.	1.2	72
11	Biogeography of aquatic hyphomycetes: Current knowledge and future perspectives. Fungal Ecology, 2016, 19, 169-181.	0.7	68
12	Intraspecific traits change biodiversity effects on ecosystem functioning under metal stress. Oecologia, 2011, 166, 1019-1028.	0.9	66
13	Microbial Decomposer Communities Are Mainly Structured by Trophic Status in Circumneutral and Alkaline Streams. Applied and Environmental Microbiology, 2009, 75, 6211-6221.	1.4	65
14	Assessing the dynamic of microbial communities during leaf decomposition in a low-order stream by microscopic and molecular techniques. Microbiological Research, 2010, 165, 351-362.	2.5	62
15	Higher temperature reduces the effects of litter quality on decomposition by aquatic fungi. Freshwater Biology, 2012, 57, 2306-2317.	1.2	58
16	Effects of increased temperature and aquatic fungal diversity on litter decomposition. Fungal Ecology, 2012, 5, 734-740.	0.7	58
17	Copper and zinc mixtures induce shifts in microbial communities and reduce leaf litter decomposition in streams. Freshwater Biology, 2008, 53, 91-101.	1.2	52
18	Responses of primary production, leaf litter decomposition and associated communities to stream eutrophication. Environmental Pollution, 2015, 202, 32-40.	3.7	52

#	Article	IF	Citations
19	Differences in the sensitivity of fungi and bacteria to season and invertebrates affect leaf litter decomposition in a Mediterranean stream. FEMS Microbiology Ecology, 2016, 92, fiw121.	1.3	51
20	Leaf Breakdown Rates: a Measure of Water Quality?. International Review of Hydrobiology, 2001, 86, 407-416.	0.5	49
21	Copper oxide nanoparticles can induce toxicity to the freshwater shredder Allogamus ligonifer. Chemosphere, 2012, 89, 1142-1150.	4.2	49
22	Effects of Zinc on Leaf Decomposition by Fungi in Streams: Studies in Microcosms. Microbial Ecology, 2004, 48, 366-374.	1.4	47
23	Realized Fungal Diversity Increases Functional Stability of Leaf Litter Decomposition Under Zinc Stress. Microbial Ecology, 2010, 59, 84-93.	1.4	47
24	DNA barcoding of fungi: a case study using ITS sequences for identifying aquatic hyphomycete species. Fungal Diversity, 2010, 44, 77-87.	4.7	47
25	A comparative study on the transport ofL(-)malic acid and other short-chain carboxylic acids in the yeastCandida utilis: Evidence for a general organic acid permease. Yeast, 1993, 9, 743-752.	0.8	45
26	Effects of heavy metals on the production of thiol compounds by the aquatic fungi Fontanospora fusiramosa and Flagellospora curta. Ecotoxicology and Environmental Safety, 2007, 66, 36-43.	2.9	44
27	Impacts of warming on aquatic decomposers along a gradient of cadmium stress. Environmental Pollution, 2012, 169, 35-41.	3.7	43
28	High Diversity of Fungi may Mitigate the Impact of Pollution on Plant Litter Decomposition in Streams. Microbial Ecology, 2008, 56, 688-695.	1.4	42
29	Responses of Aquatic Fungal Communities on Leaf Litter to Temperatureâ€Change Events. International Review of Hydrobiology, 2009, 94, 410-418.	0.5	42
30	Mixtures of zinc and phosphate affect leaf litter decomposition by aquatic fungi in streams. Science of the Total Environment, 2009, 407, 4283-4288.	3.9	39
31	Wildfire impacts on freshwater detrital food webs depend on runoff load, exposure time and burnt forest type. Science of the Total Environment, 2019, 692, 691-700.	3.9	38
32	Functional stability of streamâ€dwelling microbial decomposers exposed to copper and zinc stress. Freshwater Biology, 2009, 54, 1683-1691.	1.2	37
33	Effects of metals on growth and sporulation of aquatic fungi. Drug and Chemical Toxicology, 2010, 33, 269-278.	1.2	37
34	Structural and functional measures of leaf-associated invertebrates and fungi as predictors of stream eutrophication. Ecological Indicators, 2016, 69, 648-656.	2.6	37
35	Microbial decomposition is highly sensitive to leaf litter emersion in a permanent temperate stream. Science of the Total Environment, 2018, 621, 486-496.	3.9	36
36	Functional expression of the lactate permease Jen1p of Saccharomyces cerevisiae in Pichia pastoris. Biochemical Journal, 2003, 376, 781-787.	1.7	35

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37	Effects of Cadmium and Phenanthrene Mixtures on Aquatic Fungi and Microbially Mediated Leaf Litter Decomposition. Archives of Environmental Contamination and Toxicology, 2011, 61, 211-219.	2.1	34
38	Temperature modulates AgNP impacts on microbial decomposer activity. Science of the Total Environment, 2017, 601-602, 1324-1332.	3.9	33
39	The Role of Early Fungal Colonizers in Leafâ€Litter Decomposition in Portuguese Streams Impacted by Agricultural Runoff. International Review of Hydrobiology, 2009, 94, 399-409.	0.5	31
40	Intraspecific Variation of the Aquatic Fungus Articulospora tetracladia: An Ubiquitous Perspective. PLoS ONE, 2012, 7, e35884.	1.1	31
41	Fungi from metalâ€polluted streams may have high ability to cope with the oxidative stress induced by copper oxide nanoparticles. Environmental Toxicology and Chemistry, 2015, 34, 923-930.	2.2	31
42	Metal-binding proteins and peptides in the aquatic fungi Fontanospora fusiramosa and Flagellospora curta exposed to severe metal stress. Science of the Total Environment, 2006, 372, 148-156.	3.9	30
43	Assessing the Contribution of Micro-Organisms and Macrofauna to Biodiversityâ€"Ecosystem Functioning Relationships in Freshwater Microcosms. Advances in Ecological Research, 2010, , 151-176.	1.4	29
44	Physiological responses to nanoCuO in fungi from non-polluted and metal-polluted streams. Science of the Total Environment, 2014, 466-467, 556-563.	3.9	29
45	Humic acid can mitigate the toxicity of small copper oxide nanoparticles to microbial decomposers and leaf decomposition in streams. Freshwater Biology, 2016, 61, 2197-2210.	1.2	29
46	How do physicochemical properties influence the toxicity of silver nanoparticles on freshwater decomposers of plant litter in streams?. Ecotoxicology and Environmental Safety, 2017, 140, 148-155.	2.9	29
47	Potential of Yeasts as Biocontrol Agents of the Phytopathogen Causing Cacao Witchesâ€™ Broom Disease: Is Microbial Warfare a Solution?. Frontiers in Microbiology, 2019, 10, 1766.	1.5	29
48	Proteomics and antioxidant enzymes reveal different mechanisms of toxicity induced by ionic and nanoparticulate silver in bacteria. Environmental Science: Nano, 2019, 6, 1207-1218.	2.2	29
49	Metal stress induces programmed cell death in aquatic fungi. Aquatic Toxicology, 2009, 92, 264-270.	1.9	27
50	Fsy1, the sole hexose-proton transporter characterized in Saccharomyces yeasts, exhibits a variable fructose:H+ stoichiometry. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 201-207.	1.4	26
51	Effects of Zn, Fe and Mn on Leaf Litter Breakdown by Aquatic Fungi: a Microcosm Study. International Review of Hydrobiology, 2010, 95, 12-26.	0.5	24
52	Temperature alters interspecific relationships among aquatic fungi. Fungal Ecology, 2013, 6, 187-191.	0.7	24
53	Seasonal Variability May Affect Microbial Decomposers and Leaf Decomposition More Than Warming in Streams. Microbial Ecology, 2016, 72, 263-276.	1.4	24
54	Utilization and Transport of Acetic Acid in Dekkera anomala and Their Implications on the Survival of the Yeast in Acidic Environments. Journal of Food Protection, 2000, 63, 96-101.	0.8	22

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55	Enzymatic biomarkers can portray nanoCuO-induced oxidative and neuronal stress in freshwater shredders. Aquatic Toxicology, 2016, 180, 227-235.	1.9	22
56	Preliminary Insights into the Phylogeography of Six Aquatic Hyphomycete Species. PLoS ONE, 2012, 7, e45289.	1.1	22
57	A decade's perspective on the impact of DNA sequencing on aquatic hyphomycete research. Fungal Biology Reviews, 2013, 27, 19-24.	1.9	21
58	Assessing effects of eutrophication in streams based on breakdown of eucalypt leaves. Fundamental and Applied Limnology, 2007, 168, 221-230.	0.4	20
59	Effects of Riparian Plant Diversity Loss on Aquatic Microbial Decomposers Become More Pronounced with Increasing Time. Microbial Ecology, 2013, 66, 763-772.	1.4	19
60	Responses of microbial decomposers to drought in streams may depend on the environmental context. Environmental Microbiology Reports, 2017, 9, 756-765.	1.0	18
61	Legacy of Summer Drought on Autumnal Leaf Litter Processing in a Temporary Mediterranean Stream. Ecosystems, 2020, 23, 989-1003.	1.6	18
62	Proteomic responses to silver nanoparticles vary with the fungal ecotype. Science of the Total Environment, 2020, 704, 135385.	3.9	18
63	Biochemical and functional responses of stream invertebrate shredders to post-wildfire contamination. Environmental Pollution, 2020, 267, 115433.	3.7	18
64	Plastic Interactions with Pollutants and Consequences to Aquatic Ecosystems: What We Know and What We Do Not Know. Biomolecules, 2022, 12, 798.	1.8	18
65	When Microscopic Organisms Inform General Ecological Theory. Advances in Ecological Research, 2010, 43, 45-85.	1.4	17
66	Some new DNA barcodes of aquatic hyphomycete species. Mycoscience, 2015, 56, 102-108.	0.3	17
67	Fungistatic effect of agrochemical and pharmaceutical fungicides on non-target aquatic decomposers does not translate into decreased fungi- or invertebrate-mediated decomposition. Science of the Total Environment, 2020, 712, 135676.	3.9	17
68	Plant litter diversity affects invertebrate shredder activity and the quality of fine particulate organic matter in streams. Marine and Freshwater Research, 2015, 66, 449.	0.7	16
69	Direct and indirect effects of an invasive omnivore crayfish on leaf litter decomposition. Science of the Total Environment, 2016, 541, 714-720.	3.9	16
70	New climatic targets against global warming: will the maximum 2â€‰Â°C temperature rise affect estuarine benthic communities?. Scientific Reports, 2017, 7, 3918.	1.6	16
71	Natural organic matter alters size-dependent effects of nanoCuO on the feeding behaviour of freshwater invertebrate shredders. Science of the Total Environment, 2015, 535, 94-101.	3.9	15
72	Microscopy- or DNA-based analyses: Which methodology gives a truer picture of stream-dwelling decomposer fungal diversity?. Fungal Ecology, 2015, 18, 130-134.	0.7	15

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73	Taxa-area relationship of aquatic fungi on deciduous leaves. PLoS ONE, 2017, 12, e0181545.	1.1	15
74	Eutrophication modulates plant-litter diversity effects on litter decomposition in streams. Freshwater Science, 2015, 34, 31-41.	0.9	14
75	Effects of metal nanoparticles on freshwater rotifers may persist across generations. Aquatic Toxicology, 2020, 229, 105652.	1.9	14
76	Quantitative analysis of proton movements associated with the uptake of weak carboxylic acids. The yeast Candida utilis as a model. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1153, 59-66.	1.4	13
77	The Use of Attached Microbial Communities to Assess Ecological Risks of Pollutants in River Ecosystems: The Role of Heterotrophs. Handbook of Environmental Chemistry, 2012, , 55-83.	0.2	13
78	The role of the freshwater shrimp Atyaephyra desmarestii in leaf litter breakdown in streams. Hydrobiologia, 2012, 680, 149-157.	1.0	13
79	Spring stimulates leaf decomposition in moderately eutrophic streams. Aquatic Sciences, 2017, 79, 197-207.	0.6	13
80	Does the developmental stage and composition of riparian forest stand affect ecosystem functioning in streams?. Science of the Total Environment, 2017, 609, 1500-1511.	3.9	13
81	Riparian land use and stream habitat regulate water quality. Limnologica, 2020, 82, 125762.	0.7	13
82	Transcriptomics reveals the action mechanisms and cellular targets of citrate-coated silver nanoparticles in a ubiquitous aquatic fungus. Environmental Pollution, 2021, 268, 115913.	3.7	13
83	Polyhydroxyfullerene Binds Cadmium Ions and Alleviates Metal-Induced Oxidative Stress in Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2014, 80, 5874-5881.	1.4	12
84	Effects of inter and intraspecific diversity and genetic divergence of aquatic fungal communities on leaf litter decompositionâ€"a microcosm experiment. FEMS Microbiology Ecology, 2016, 92, fiw102.	1.3	12
85	Reconstitution of lactate proton symport activity in plasma membrane vesicles from the yeastCandida utilis. , 1996, 12, 1263-1272.		11
86	Nanosilver impacts on aquatic microbial decomposers and litter decomposition assessed as pollution-induced community tolerance (PICT). Environmental Science: Nano, 2020, 7, 2130-2139.	2.2	11
87	Combined perâ€capita and abundance effects of an invasive species on native invertebrate diversity and a key ecosystem process. Freshwater Biology, 2022, 67, 828-841.	1.2	11
88	Can photocatalytic and magnetic nanoparticles be a threat to aquatic detrital food webs?. Science of the Total Environment, 2021, 769, 144576.	3.9	9
89	Base Nacional Comum Curricular: ponto de saturaÃ§Ã£o e retrocesso na educaÃ§Ã£o. Revista Retratos Da Escola, 2018, 12, 239.	0.0	9
90	Elevated temperature may reduce functional but not taxonomic diversity of fungal assemblages on decomposing leaf litter in streams. Global Change Biology, 2022, 28, 115-127.	4.2	9

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91	Denaturing Gradient Gel Electrophoresis (DGGE) in Microbial Ecology - Insights from Freshwaters. , 2012, , .		8
92	Intraspecific diversity affects stress response and the ecological performance of a cosmopolitan aquatic fungus. Fungal Ecology, 2019, 41, 218-223.	0.7	8
93	Priority effects of stream eutrophication and assembly history on beta diversity across aquatic consumers, decomposers and producers. Science of the Total Environment, 2021, 797, 149106.	3.9	8
94	Evidence of micro and macroplastic toxicity along a stream detrital food-chain. Journal of Hazardous Materials, 2022, 436, 129064.	6.5	8
95	The Increase in Temperature Overwhelms Silver Nanoparticle Effects on the Aquatic Invertebrate Limnephilus sp.. Environmental Toxicology and Chemistry, 2020, 39, 1429-1437.	2.2	7
96	Can microplastics from personal care products affect stream microbial decomposers in the presence of silver nanoparticles?. Science of the Total Environment, 2022, 832, 155038.	3.9	7
97	Individual and mixed effects of anticancer drugs on freshwater rotifers: A multigenerational approach. Ecotoxicology and Environmental Safety, 2021, 227, 112893.	2.9	6
98	Effects of intrapopulation phenotypic traits of invasive crayfish on leaf litter processing. Hydrobiologia, 2018, 819, 67-75.	1.0	5
99	Antiparasitic potential of agrochemical fungicides on a non-target aquatic model (Daphnia Ã—) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	5
100	Assessment of Candida utilis growth by voltammetric reduction of acids using microelectrodes. Journal of Electroanalytical Chemistry, 2004, 566, 139-145.	1.9	4
101	Ethanol and phenanthrene increase the biomass of fungal assemblages and decrease plant litter decomposition in streams. Science of the Total Environment, 2016, 565, 489-495.	3.9	4
102	Linking Microbial Decomposer Diversity to Plant Litter Decomposition and Associated Processes in Streams. , 2021, , 163-192.		4
103	Evaluation of the Lactic Acid Consumption in Yeast Cultures by Voltammetric Means. Electroanalysis, 2005, 17, 483-488.	1.5	3
104	Functional Purification of the Monocarboxylate Transporter of the Yeast Candida utilis. Biotechnology Letters, 2006, 28, 1221-1226.	1.1	3
105	Importance of exposure route in determining nanosilver impacts on a stream detrital processing chain. Environmental Pollution, 2021, 290, 118088.	3.7	3
106	Aquatic Hyphomycete Taxonomic Relatedness Translates into Lower Genetic Divergence of the Nitrate Reductase Gene. Journal of Fungi (Basel, Switzerland), 2021, 7, 1066.	1.5	3
107	Eco-physiological Responses of Aquatic Fungi to Three Global Change Stressors Highlight the Importance of Intraspecific Trait Variability. Microbial Ecology, 2022, , 1.	1.4	3
108	Leaf Breakdown Rates: a Measure of Water Quality?. International Review of Hydrobiology, 2001, 86, 407-416.	0.5	2

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109	lâ€“[Uâ€“14C]Lactate binding to a 43Â kDa protein in plasma membranes of Candida utilis. Microbiology (United Kingdom), 2000, 146, 695-699.	0.7	1
110	Temperature and interspecific competition alter the impacts of two invasive crayfish species on a key ecosystem process. Biological Invasions, 2022, 24, 3757-3768.	1.2	1
111	Reply to the â€œLetter to the editor, Proteomic responses to silver nanoparticles vary with the fungal ecotypeâ€•by Huang et al.. Science of the Total Environment, 2020, 748, 142402.	3.9	0
112	O efeito da complexidade estrutural da fonte de nitrogÃªnio no transporte de amÃ´nio em Saccharomyces cerevisiae. Ecletica Quimica, 2001, 26, 157-173.	0.2	0
113	Comparative performance and ecotoxicity assessment of Y₂(CO₃)₃, ZnO/TiO₂, and Fe₃O₄ nanoparticles for arsenic removal from water. Environmental Science: Water Research and Technology, 0, , .	1.2	0